

WHAT IS CLAIMED IS:

1. A headlamp comprising:
 - a light source;
 - a shade that forms a light distribution pattern for a low beam when the shade is in a low beam position and a light distribution pattern for a high beam when the shade is in a high beam position with a light from the light source;
 - a solenoid that shifts the shade from the low beam position to the high beam position;
 - a stopper mechanism that stops the shade at either of the low beam position and the high beam position; and
 - a spring that shifts back the shade from the high beam position to the low beam position.
2. The headlamp according to claim 1, wherein the spring is a cone-shaped coil spring.
3. The headlamp according to claim 1, wherein the stopper mechanism comprises
 - a plurality of protruding-portions provided on a part of the shade; and
 - 20 a stopper including a plurality of protrusions abutting against corresponding protruding-portions when the shade is shifted to either of the low beam position and the high beam position.

4. The headlamp according to claim 3, wherein
the protruding portions include abutting surfaces having an angle with
respect to a longitudinal direction of the solenoid, and
each of the protrusions are provided in parallel with corresponding
5 abutting surfaces.
 5. The headlamp according to claim 3, wherein the stopper has an
elasticity at least in the protrusions.
- 10 6. The headlamp according to claim 3, wherein the stopper mechanism
includes two protruding-portions with four abutting surfaces.
7. The headlamp according to claim 3, wherein the stopper includes four
protrusions.
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8. The headlamp according to claim 1, wherein the solenoid is a pull-type
solenoid.